

EXPERIMENTAL FEATURE WORK PLAN

RESEARCH DIVISION, DEVELOPMENT SECTION

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Experimental Feature No.: X(0)

Submitted By: Barry Sharp

Date: November 23,
2005



UDOT Champions: Lonnie Marchant, P. E., Region Two Pavement Engineer, John Butterfield, Region Two Materials Engineer, Michelle Page, Research

Exp. Feature Title: Geo-grid Base Reinforcement to Reduce Pavement Section Thickness – UDOT Projects Number One, State Street from 10600 South to 9000 South, Project Number SP-0089(88)313 and Number Two Project, 10600 South from Bangerter Highway to Redwood Road, Project Number *HPP-0151(2)0.

Problem Statement: The un-reinforced pavement section for both projects is approximately 40 inches. This creates numerous utility conflicts. Utilizing a geo-grid base course reinforcement allows the pavement section to be reduced to approximately 26 inches.

Exp. Feature Objectives: Are Listed as Follows:

1. Install a geo-grid base course using the 26 inch section on both projects using manufacturers geo-grid materials
2. Install and monitor test sections 100 LF by ½ roadway width on each project for each product using 40 inch pavement section
3. Manufacturers requires at least one 10 foot x 10 foot shoulder area, prior to paving to explore the installation success for each product on each project
4. Evaluate 26 inch and 40 inch sections as follows:
 - a. FWD will be performed annually-Section strength compared to design
 - b. IRI/Profiler will be performed annually-Rut and roughness measure
 - c. Skid Test will be performed annually

Location: State Street from 10600 South to 9000 South, Project Number SP-0089-88-313 and 10600 South from Bangerter Highway to Redwood Road, Project Number *HPP-0151(2)0

Cost/Duration: Cost for geo-grid will be paid per each project contract and the evaluation will be for five years

Supplier: Brian Baillie, Regional Sales/Engineering Manager
Huesker, Inc.

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Tensar Earth Technologies, Inc.
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Schedule of Data Collection and Evaluation		
Item	Personnel assigned	Due Date
Product Installation/ Control Data	Barry Sharp, Research & Lonnie Marchant, Region II Pavement Engineer	Spring of 2006
Construction Report	Barry Sharp	When installed 2006
Interim Report	Barry Sharp	Spring 2006 Spring 2007 Spring 2008 Spring 2009 Spring 2010
Final Report	Whomever	Fall 2010
Submitted by	Barry Sharp	

Revised 4/19/2002